Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently amended) A method for detecting duplicate images comprising the steps of:

providing at least two images of an original scene captured at determinable times by aphotographic camera, where the camera records a time of camera capture of the original scene;

computing an indication of image content for each image;
determining the time of <u>camera</u> capture of each of the images; and
evaluating the indication of image content and the time of <u>camera</u>
capture to determine whether the images are duplicate images.

2. (Original) The method as claimed in claim 1 wherein the step of computing an indication of image content comprises:

dividing each image into blocks; and computing an indication of image content in each block.

- 3. (Original) The method as claimed in claim 2 wherein each image is divided into 4x4 or fewer blocks.
- 4. (Original) The method as claimed in claim 3 wherein each image is divided into 3x3 blocks.
- 5. (Original) The method as claimed in claim 2 wherein the step of computing an indication of image content in each block comprises computing a histogram for each block.
- 6. (Currently amended) The method as claimed in claim 5 wherein the step of evaluating the indication of image content and the time of camera capture comprises comparing one or more blocks of one image, using a

histogram intersection metric, to corresponding blocks of another image and using the time difference between capture of the two images to determine whether the images are duplicate images.

7. (Original) The method as claimed in claim 1 wherein the step of computing an indication of image content comprises:

dividing each image into blocks, wherein one or more blocks represent a foreground area of the images; and

computing an indication of image content in each block and in the foreground areas of each image.

- 8. (Original) A method for detecting duplicate images comprising the steps of:
- (a) providing a plurality of images captured at determinable times;
- (b) dividing each image into an X number of blocks, wherein one or more blocks represent a central area and a foreground area;
- (c) computing histograms for each block of each image, and block histogram intersection values obtained from comparisons between histograms from corresponding blocks from each image;
- (d) determining whether each block histogram intersection value for at least those blocks surrounding the central area is higher than a threshold T₁, and determining whether the number of intersection values below the threshold T₁ are not greater than a certain number N;
- (e) computing an average histogram intersection value of the foreground area, and determining whether the average block histogram intersection value of the foreground area is not lower than a threshold T₂;
- (f) determining whether the average histogram intersection value of the foreground is higher than a threshold T₃;
- (g) determining whether an average of the X number of block histogram intersection values is higher than a threshold T₄;
- (h) determining whether the average of the X number of block histogram intersection values is higher than a threshold T₅;

- (i) determining whether the time difference between capture of the images is less than a threshold T₆;
- (j) determining whether the average of the X number of block histogram intersection values is higher than a threshold T₇; and
- (k) determining whether the time difference between the capture of the images is less than a threshold T₈; and
- (l) utilizing the determinations made in steps (d) through (k) to determine if any of the images are duplicates.
- 9. (Original) The method as recited in claim 8 wherein said step (h) further provides that $T_5 < T_4$.
- 10. (Original) The method as recited in claim 8 wherein said step (j) further provides that $T_5 < T_4 < T_7$.
- 11. (Original) The method as recited in claim 8 wherein said step (k) further provides that $T_6 < T_8$.
- 12. (Original) The method as recited in claim 8 wherein said step (b) comprises dividing each image into a configuration of 4x4 or fewer blocks.
- 13. (Original) The method as recited in claim 12 wherein said step (b) comprises dividing each image into a configuration of 3x3 blocks.
- 14. (Original) A method for detecting duplicate images comprising the steps of:
 - (a) providing a plurality of images;
- (b) dividing each image into an X number of blocks, wherein one or more blocks represent a central area and a foreground area;
- (c) computing histograms for each block, and block histogram intersection values obtained from comparisons between histograms from corresponding blocks from each image;

- (d) determining whether each block histogram intersection value for at least those blocks surrounding the center block is higher than a threshold T₁, and determining whether the number of intersection values below the threshold T₁ are not greater than a certain number N;
- (e) computing an average histogram intersection value of the foreground area, and determining whether the average block histogram intersection value of the foreground area is not lower than a threshold T_2 ;
- (f) determining whether the average histogram intersection value of the foreground is higher than a threshold T₃;
- (g) determining whether an average of the X number of block histogram intersection values is higher than a threshold T₄;
- (h) determining whether the average of the X number of block histogram intersection values is higher than a threshold T₅; and
- (i) utilizing the determinations made in steps (d) through (h) to determine if any of the images are duplicates.
- 15. (Original) The method as recited in claim 14 wherein said step (h) further provides that $T_5 < T_4$.
- 16. (Original) The method as recited in claim 14 wherein said step (b) comprises dividing each image into a configuration of 4x4 or fewer blocks.
- 17. (Original) The method as recited in claim 16 wherein said step (b) comprises dividing each image into a configuration of 3x3 blocks.
- 18. (Currently amended) A computer program product for detecting duplicate images comprising: a computer readable storage medium having a computer program stored thereon for performing the steps of:

providing at least two images of an original scene captured at determinable times by a photographic camera, where the camera records a time of camera capture of the original scene;

computing an indication of image content for each image; determining the time of <u>camera</u> capture of each of the images; and evaluating the indication of image content and the time of <u>camera</u> capture to determine whether the images are duplicate images.

- 19. (Original) The computer program product as claimed in claim 18 wherein the step of computing an indication of image content comprises: dividing each image into blocks; and computing an indication of image content in each block.
- 20. (Original) The computer program product as claimed in claim 19 wherein each image is divided into 4x4 or fewer blocks.
- 21. (Original) The computer program product as claimed in claim 20 wherein each image is divided into 3x3 blocks.
- 22. (Original) The computer program product as claimed in claim 19 wherein the step of computing an indication of image content in each block comprises computing a histogram for each block.
- 23. (Currently amended) The computer program product as claimed in claim 22 wherein the step of evaluating the indication of image content and the time of <u>camera</u> capture comprises comparing one or more blocks of one image, using a histogram intersection metric, to corresponding blocks of another image and using the time difference between capture of the two images to determine whether the images are duplicate images.
- 24. (Original) The computer program product as claimed in claim 18 wherein the step of computing an indication of image content comprises:

 dividing each image into blocks, wherein one or more blocks represent a foreground area of the images; and computing an indication of image content in each block and in the foreground areas of each image.
- 25. (Currently amended) A method for detecting duplicate images comprising the steps of:

providing at least two images originally captured by a photographic camera at determinable times from original scenes;

computing an indication of image content for each image by dividing each image into blocks, computing an indication of image content in each block, and comparing the computed indication of image content in each corresponding block for the two images to generate a similarity metric for each block;

determining the time of original capture of each of the images; and evaluating the similarity metric for each block and the time of original capture to determine whether the images are duplicate images.

- 26. (Previously presented) The method as claimed in claim 25 wherein the time of original capture is determined by extracting encoded time information from a film strip used to capture images of the original scene.
- 27. (Previously presented) The method as claimed in claim 25 wherein the time of original capture is determined by extracting encoded time information from images provided by a digital camera.
- 28. (Previously presented) The method as claimed in claim 25 further comprising the step of generating an average of the similarity metrics for the blocks and the step of evaluating the similarity metric comprises evaluating the average of the similarity metrics and the time of capture to determine whether the images are duplicate images.
- 29. (Previously presented) The method as claimed in claim 25 wherein the step of evaluating the similarity metric for each block and the time of capture comprises comparing one or more blocks of one image, using a histogram intersection metric, to corresponding blocks of another image and using the time difference between capture of the two images to determine whether the images are duplicate images.
- 30. (Previously presented) The method as claimed in claim 25 wherein the step of computing an indication of image content further comprises

assigning one or more blocks to represent a foreground area of the images, and computing an indication of image content in each block and in the foreground areas of each image.